

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE SIDEWALK RAMPS, INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS AT THE INTERSECTION OF MD 528 AND 100TH STREET. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE. THE MD 528 NORTHBOUND AND SOUTHBOUND LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING. ALTERNATE PEDESTRIAN PHASES ARE PROVIDED FOR THE NORTH AND SOUTH LEG OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN. A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

SPECIAL NOTE

APS WILL FUNCTION AS FOLLOWS:

TO CROSS COASTAL HIGHWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL AT 100TH, WAIT"
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. KENNETH CIMINO
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (410) 677-4040

MR. GREG HOLSEY
ASSISTANT DISTRICT ENGINEER - CONST.
PHONE: (410) 677-4020

MR. BRUCE POOLE
DISTRICT UTILITY ENGINEER
PHONE: (410) 677-4082

MR. JAMES WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINT.
PHONE: (410) 677-4010

MR. TERRY MCGEAN
TOWN OF OCEAN CITY - CITY ENGINEER
PHONE: (410) 289-8845

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF
TRAFFIC OPERATIONS
PHONE: (410)787-7630

MR. JOHN GOVER
OFFICE OF HIGHWAY DESIGN
PHONE: (410) 545-8766

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
(410)787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS
(410)787-7676

EQUIPMENT LIST "A,B & C"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA		UNIT	QUANTITY
ITEM NO.	DESCRIPTION	SF	4
9571	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN 4 - R10-3(1) 9"x15"		

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		UNIT	QUANTITY
ITEM NO.	DESCRIPTION		
1002	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	LF	1450
5005	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	1050
8001	FURNISH AND INSTALL AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	4
8002	FURNISH AND INSTALL BREAKWAY PEDESTAL POLE - ANY SIZE	EA	2
8003	FURNISH AND INSTALL LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	4
8004	REMOVE AND DISPOSE PER ASSIGNMENT	EA	1
8007	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	25
8009	ADJUST EXISTING HANDHOLE	EA	3
8010	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	25
8013	INSTALL GROUND MOUNTED SIGN	SF	4
8018	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	375
8019	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	400

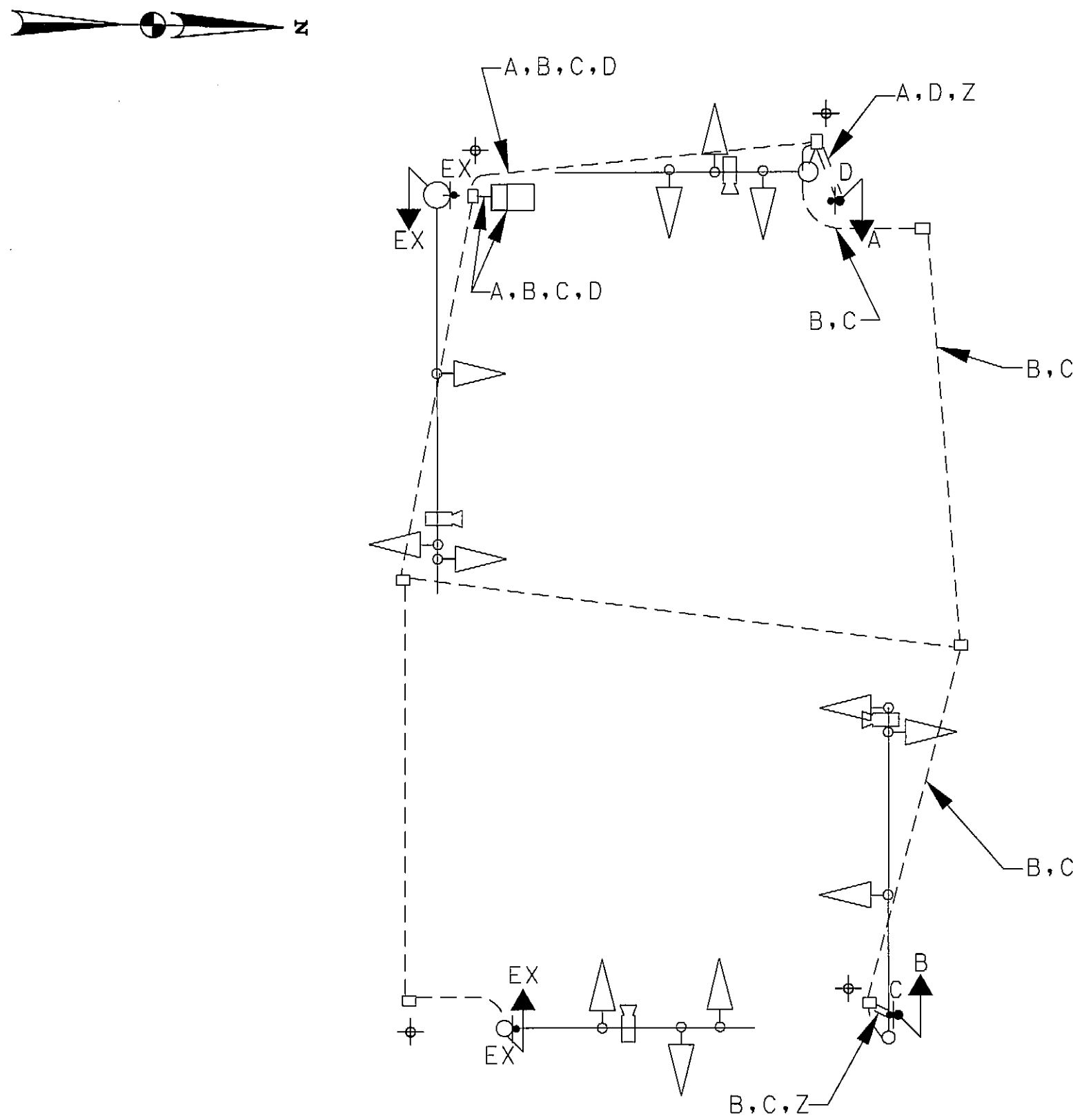
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART

NO PHASE CHANGE

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM 60"x60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN 2%.
- PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- ADA REQUIRES THAT ANY ABRUPT CHANGE IN ELEVATION IN SIDEWALK BE LESS THAN 1/4".
- ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
- VIDEO DETECTION CAMERA REALIGNMENT SHALL BE COORDINATED WITH THE ENGINEER.
- THE CONTRACTOR SHALL CAP AND ABANDON CONDUIT FEEDING SIGNAL EQUIPMENT THAT IS REMOVED.
- THE 10' SEPERATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.



WIRING KEY	
EX	USE EXISTING CABLE
A,B	5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
C,D	2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
Z	STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)
⊕	EXISTING GROUND ROD

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 528 AT 100TH STREET OCEAN CITY, MARYLAND	
GENERAL INFORMATION SHEET	
REVISIONS	SCALE <u>NONE</u> DATE <u>AUGUST 2012</u> CONTRACT NO. <u>XXI285133</u>
DESIGNED BY <u>AMR</u> COUNTY <u>WORCESTER</u>	
DRAWN BY <u>AMR</u> LOGMILE <u>23052804.53</u>	
CHECKED BY <u>BJG</u> TMS NO. <u>LP24</u>	
FAP NO. <u> </u> TOD NO. <u> </u>	
TS NO. I269C-GI	DRAWING SP-2 OF 2 SHEET NO. 22 OF 24

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